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| **ARCHEOBOTANIKA 2016/2017 MU Brno****Intenzíivny kurz – Panská Lhota 13.-16.10.2016** | **Mária Hajnalová** |

**Program**

Príchod – podvečer až večer v stredu 12.10. 2016

Začiatok – štvrtok 13.10. o 9:15

Ukončenie – nedeľa 16.10. o 14.30

**Rozpis hodín**



V jednej skupine (A, B) môže byť 5(6) maximálne však 10(12) študentov

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| **Témy**Prednáška 1 | Archeobotanika- predmet štúdia |
| Prednáška 2 | Tafonómia |
| Prednáška 3 | Odber vzoriek |
| Prednáška 4 | Domestikácia rastlín |
| Prednáška 5 | História pestovania rastlín 1 |
| Prednáška 6 | História pestovania rastlín 2 |
| Prednáška 7 | Paleoekonómia |
| Prednáška 8 | Paleoekológia |
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| Seminár 1 | Význam štúdia tafonomických procesov tvorby archeobotanických vzoriek pre archeológiu |
| Seminár 2 | Kedy a kde prešiel človek od lovu a zberu k pestovaniu rastlín a chovu zvierat |
| Seminár 3 | Cesty šírenia plodín z centier ich domestikácie |
| Seminár 4 | Počiatky pestovania ovocia v Starom Svete |
| Seminár 5 a 6 | Význam archeobotaniky pre archeológiu |
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| Labák 1 | Identifikácia zŕn pšeníc |
| Labák 2 | Identifikácia pliev pšeníc |
| Labák 3 | Identifikácia zŕn a pliev iných obilnín a strukovín |
| Labák 4 | Identifikácia ovocia, zelenín a planých rastlín |
| Labák 5 | Triedenie reálnej archeobotanickej vzorky |

# Literatúra

**Archeobotanika – predmet štúdia**

Pearsall, D.M. 2000 Palaeoethnobotany: a Handbook of Procedures. Academic Press, San diego. (**p:1-11**)

Jacomet, S. & Kreuz A. 1999 Archäobotanik. Verlag Eugen Ulmer, Stuttgart. (**p:11-21**)

Hajnalová E. 1999 Archeobotanika (skriptá SPU). (**p: 5-10**)

Zohary, D. & Hopf, M. 1994 Domestication of Plants in the Old World. Oxford. (**p:1-15**)

## **Tafonómia (+ pozri k sem.prac.I)**

Fuller & Harvey 2006 The archaeobotany of Indian pulses: identification, processing and evidence for cultivation. *Environmental Archaeology* 11(2):219-246.

Harvey & Fuller 2004 Investigating crop processing using phytolith analysis: the example of rice and millets. *Journal of Archaeological Science* 32: 739-752.

Kuna et al. 2013 Raně středověký areál v Roztokách z pohladu ekofaktů. Památky archeologické CIV: 59-71. (najmä, ale nielen kap. 1 a 2)

Hajnalová 2012 Archeobotanika doby bronzovej na Slovensku. UKF. (kap.6)

**Vzorkovanie a získavanie rastlinných makrozvyškov**

Jones, M.K. 1991 Sampling in palaeoethnobotany. In W. van Zeist, K. Wasilikowa et K.E.

Behre (eds.) Progress in the Old World Palaeoethnobotany. Rotterdam, Balkema. (**p: 53-**)

**alebo** Veen, M. van der 1984 Sampling for seeds. In: W. van Zeist and W.A. Caspaire (eds.) Plants and Ancient man. Rotterdam, Balkema. (**p: 193-199**)

Pearsall, D.M. 2000 Palaeoethnobotany: a Handbook of Procedures. Academic Press, San diego. (**p:**11**-66-97**)

**alebo** Jacomet, S. & Kreutz A. 1999 Archäobotanik. Verlag Eugen Ulmer, Stttgart. (**p:70-112**)

Veen, M. van der 1992 Crop Husbandry Regimes. An Archaeobotanical Study of Farming in Northern England: 1000 BC-AD 500. Sheffield, J.R.Collis Publications. Sheffield Archaeological Monographs 3. (**p:29-50**)

**alebo** Green, F. 1982 Problems interpreting differently preserved plant remains from excavations of medieval urban sites. In: A. Hall and H. Kenward (eds.) Environmental Archaeology in Urban Cotexts. (**p:40-46**)

## **Domestikácia - proces skultúrnenia rastlín (+ pozri k sem.prac.II)**

Bar-Yosef, O. 1988 The Natufian Culture in the Levant, Threshold to the Origins of Agriculture. *Evolutionary Anthropology* 6(5):159-177.

Fuller, D. 2007 Contrasting Patterns in Crop Domestication and Domestication Rates: Recent Archaeobotanical Insights from the Old World. *Annals of Botany 100:*903–924.

Sherratt, A. 2007 Diverse origins: regional contributions to the genesis of farming. In S. Colledge & J. Conolly (eds) The origins and spread of domestic plants in southwest Asia and Europe. Left Coast Press. Walnut Creek. p.1-20. (pdf)

HillmanG.C. & Davies, S.M. 1992 Domestication rate in wild wheats and barley under primitive cultivation: preliminary results and archaeological implications of field measurments of selection coefficient. In Prehistoire de l‘agriculture: Nouvelle Approches Expérimentales et Ethnographiques, Monographies du CRA no 6, ed. (**p:113-158**)

**Dobrovolne (+old):**

Fuller, DQ. 2003 …in Belwood & Renfrew (ch.16)

Jacomet, S. & Kreutz A. 1999 Archäobotanik. Verlag Eugen Ulmer, Stttgart. (**p:241-269)**

Zohary, D. & Hopf, M. 1994 Domestication of Plants in the old world. Oxford. (**p:15-18**)

Hajnalová E. 1999 Archeobotanika (skriptá SPU). (**p: 11-19**)

## **Paleoekonómia a Paleoekológia (+ pozri k sem.prac.III)**

Jones, G. E.M. 1991 Numerical analyses in archaeobotany. In: W. van Zeist, K. Wasilikowa et K.E. Behre (eds.) Progress in the Old World Palaeoethnobotany. Rotterdam, Balkema. (**p. 63-79**)

Bogaard, A. 2002 Questioning the relevance of shifting cultivation to Neolithic farming in the loess belt of Europe: evidence from the Hornbach Forest Experiment. In: *Vegetation History and Archaeobotany 11:* ***155-168*.**

Hillman, G.C. 1984 Interpretation of archaeologcal plant remains: The application of ethnographic models from Turkey. In: W. van Zeist and W.A. Caspaire (eds.) Plants and Ancient man. Rotterdam, Balkema. (**p: 1-41**)

Jones, G. E.M. 1984 Interpretation of archaeologcal plant remains: Ethnographic models from Greece. In: W. van Zeist and W.A. Caspaire (eds.) Plants and Ancient man. Rotterdam, Balkea. (**p: 43-61**)

## **História pestovania vybraných plodín starého Sveta**

Hajnalová E. 1999 Archeobotanika (skriptá SPU). (**p: 19-97**)

Jacomet, S. & Kreuz A. 1999 Archäobotanik. Verlag Eugen Ulmer, Stttgart. (**p:269-310)**

Zohary, D. & Hopf, M. 1994 Domestication of Plants in the old world. Oxford. (**p:17-211**)

## **Palynológia**

Jacomet, S. & Kreuz A. 1999 Archäobotanik. Verlag Eugen Ulmer, Stttgart. (**p:154-181)**

Pearsall, D.M. 2000 Palaeoethnobotany: a Handbook of Procedures. Academic Press, San diego. (**p:311-353**)

Rösch, M. 1996 New approaches to prehistoric land-use reconstruction in south-western Germany. In: *Vegetation History and Archaeobotany 5:* ***65-79*.**

Sádlo, J., Pokorný, P., Hájek, P., Dreslerová D., et Cílek, V. 2005 Krajina a revoluce: významné přelomy ve vývoji kulturní krajiny Českých zemí. Malá Skála. Praha pp.1-247.

# SEMINÁRE

# Úloha tafonómie v archeobotanike

Povinná literatúra- 1+2 alebo 3+4

1. Fuller, D. 2006 Archaeobotany seminar Handout: Archaeobotanical Taphonomy, for charred seed assemblages. UCL. London

2. Jones, G. 1984 Interpretation of archaeological plant remains: The application of ethnographic models from Greece. In: W. van Zeist and W.A. Caspaire (eds.) Plants and Ancient man. Rotterdam, Balkema. (**p:40-61)**

3. Jones, G. 1990 The application of present-day cereal processing studies to charred archaeobotanical remains. Circea 6:**91-96**.

4. Hillman, G. 1984 Interpretation of archaeological plant remains: The application of ethnographic models from Turkey. In: W. van Zeist and W.A. Caspaire (eds.) Plants and Ancient man. Rotterdam, Balkema. (**p:1-15; dobrovolne do 40)**

# Prechod od lovu a zberu k výrobe potravín – kde, kedy a prečo. Teórie o pôvode poľnohospodárstva a „civilizácie“ .

Povinná literatúra 1+2 alebo 3+4

1. Diamond J. 1987 The Worst Mistake in the History of Human Race. In: Discovery, May 1987:111. (**p. 91-93**)

2. Hillman, G. 1996 Late Pleistocene changes in Wild plant-foods available to hunter-gatherers of the northern Fertile Crescent: possible preludes to cereal cultivation. In ed. D., R. Harris, The Origins and spread of Agriculture and Pastoralism in Eurasia. UCL, London. (**p:159-203**).

3. Bar-Yosef, O. 1998 Agricultural Origins: Caught Between Hypotheses and a Lack of Hard Evidence. In: The Review of Archaeology, Vol 19, no. 2:**58-64**

4. Andrew Sherart 1996 Plate tectonics and imaginary prehistories: structure and contingency in agricultural origins. In: ed. D., R. Harris, The Origins and spread of Agriculture and Pastoralism in Eurasia. UCL, London. (**p:130-140**)

(dobrovolne) Diamond J. 1998…Osudy lidských společností.

# Cesty šírenia plodín z centier ich domestikácie

* Bude špecifikovaná

**Počiatky pestovania ovocia v Starom Svete**

* Bude špecifikovaná

# Potenciál archeobotaniky pre riešenie paleoekonomických otázok

Povinná literatúra 1 alebo 2 alebo 3+4

1. Veen, M. van der 1992 Crop Husbandry Regimes. An Archaeobotanical Study of Farming in Northern England: 1000 BC-AD 500. Sheffield, J.R.Collis Publications. Sheffield Archaeological Monographs 3. (**p:91-156**)

2. Bogaard, A. 2004 Neolithic farming in central Europe. Routledge. London (kap. 5, **p:96-114**)

3. Asouti E. and Fairbairn A. 2002 Subsistence economy in Central Anatolia during the Neolithic: the archaeobotanical evidence. In F. Gerard and L. Thissen (eds) The Neolithic of Central Anatolia, internal developments and external relations during the 9th-6th millennia cal BC. The proceedings of the International CANeW Table ronde held in Istanbul on 23-24 November 2001*.* Ege Yanlari,p.181 - 192.

4. Schmidl A. and Oegl, C. 2005 Subsistence strategies of two Bronze Age hill-top settlements in the eastern Alps—Friaga/Bartholom\_berg (Vorarlberg, Austria) and Ganglegg/Schluderns (South Tyrol, Italy). *Vegetation history and Archaeobotany* 14: 303-312.

# Zápočet/Skúška - bude udelený po úspešnom absolvovaní predmetu. Vyžaduje sa aktívna účasť na intenzívnom kurze. Jeho súčasťou bude i samoštúdium a prezentácie na seminároch.